SIEMENS

Data sheet 3RS7003-2DE00



Separation amplifier 24 V AC/DC, 3-way separation input: 4-20 mA output: 4-20 mA Spring-type terminal (push-in)

| product brand name | SIRIUS |
|---|----------------------------------|
| product category | Signal converter |
| product designation | Single-range converters |
| design of the product | active |
| product type designation | 3RS70 |
| General technical data | |
| display version LED | Yes |
| number of channels | 1 |
| consumed active power | 0.29 W |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 50 V |
| surge voltage resistance rated value | 2 500 V |
| protection class IP | IP20 |
| shock resistance according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | 6 150 Hz: 2 g |
| reference code according to IEC 81346-2 | Т |
| Substance Prohibitance (Date) | 03/25/2015 |
| Supply voltage | |
| supply voltage at AC | |
| at 50 Hz rated value | 24 V |
| at 60 Hz rated value | 24 V |
| supply voltage at DC rated value | 24 V |
| supply voltage frequency rated value | 60 50 Hz |
| operating range factor supply voltage rated value | |
| • at AC at 50 Hz | 0.8 1.1 |
| • at AC at 60 Hz | 0.8 1.1 |
| • at DC | 0.8 1.1 |
| Precision | |
| relative metering precision | 0.1 % |
| relative linearity deviation | 0.05 % |
| temperature drift per °C | 0.015 %/°C |
| voltage ripple maximum | 20 mV |
| limit frequency | 30 Hz |
| settling time for 1 % deviation | 17 ms |
| rise time | 6 ms |
| Main circuit | |
| type of voltage | AC/DC |
| Inputs/ Outputs | |
| input voltage | 30 V |
| property of the output short-circuit proof | Yes |
| type of signal at input | 4 20 mA |

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|---|---|
| type of signal at output input impedance of current input maximum | 4 20 mA 100 Ω |
| output load | 100 12 |
| at the current output maximum | 500 Ω |
| · | 300 12 |
| Electromagnetic compatibility | Environment D |
| EMC emitted interference according to IEC 60947-1 | Environment B |
| EMC immunity according to IEC 60947-1 | corresponds to degree of severity 3 |
| conducted interference | 411/15/50 |
| due to burst according to IEC 61000-4-4 due to conductor conductor surge according to IEC. | 1 kV 5/50 ns |
| due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| field-based interference according to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge according to IEC 61000-4-2 | 6 kV contact discharge / 8 kV air discharge |
| Galvanic isolation | Ç Ç |
| design of the electrical isolation | 3 paths |
| galvanic isolation | o patrio |
| between input and output | Yes |
| between the outputs | No |
| between the inputs | No |
| between the inputs between the voltage supply and other circuits | Yes |
| Connections/ Terminals | |
| type of electrical connection | spring-loaded terminals |
| type of connectable conductor cross-sections | spring-roducu terminais |
| solid | 1x (0.25 2.5 mm²) |
| finely stranded with core end processing | 1x (0.25 2.5 min-) 1x (0.25 1.5 mm²) |
| finely stranded with core end processing finely stranded without core end processing | 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) |
| at AWG cables solid | 1 x (20 14) |
| at AWG cables stranded | 1x (20 14) |
| connectable conductor cross-section | 17 (20 17) |
| • solid | 0.25 2.5 mm² |
| finely stranded with core end processing | 0.25 1.5 mm ² |
| finely stranded without core end processing | 0.25 2.5 mm² |
| AWG number as coded connectable conductor cross | 0.20 2.0 Hilli |
| section | |
| • solid | 20 14 |
| stranded | 20 14 |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | snap-on mounting |
| height | 93 mm |
| width | 6.2 mm |
| depth | 72.5 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 0 mm |
| — downwards | 0 mm |
| for live parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |

ambient temperature

- during operation
- · during storage
- during transport

relative humidity during operation

-25 ... +60 °C -40 ... +80 °C -40 ... +80 °C

10 ... 95 %

Certificates/ approvals

General Product Approval

Declaration of Conformity



Confirmation



EAC





Test Certificates

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RS7003-2DE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7003-2DE00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

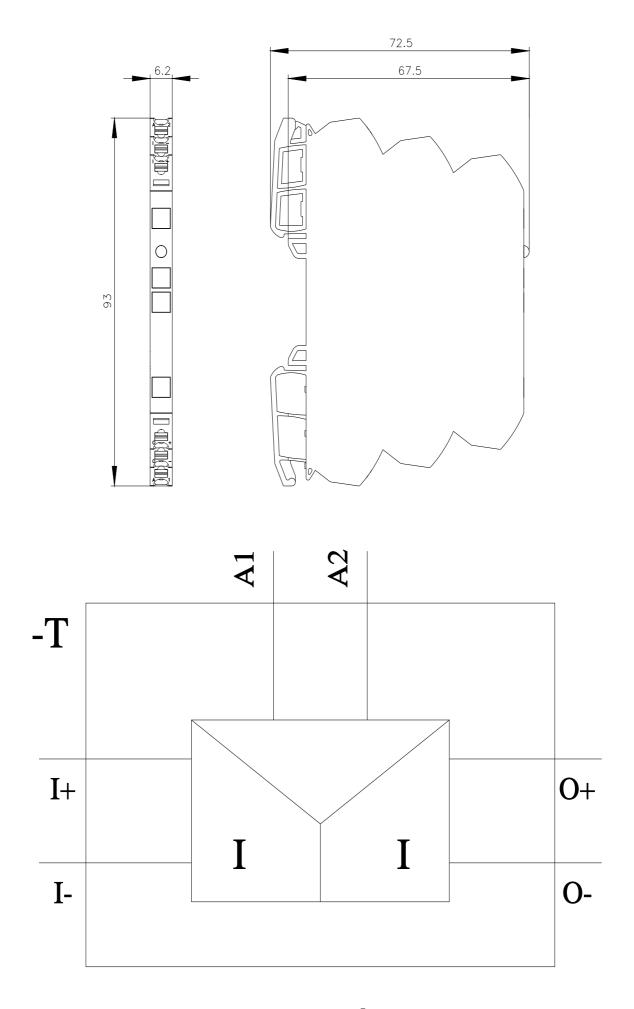
https://support.industry.siemens.com/cs/ww/en/ps/3RS7003-2DE00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7003-2DE00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7003-2DE00/manual



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